



REPLACEMENT SHEET
U.S. Application No. 10/603,994
"Hydrocyclone Roping Detector and Method"
Timothy J. Olson et al.

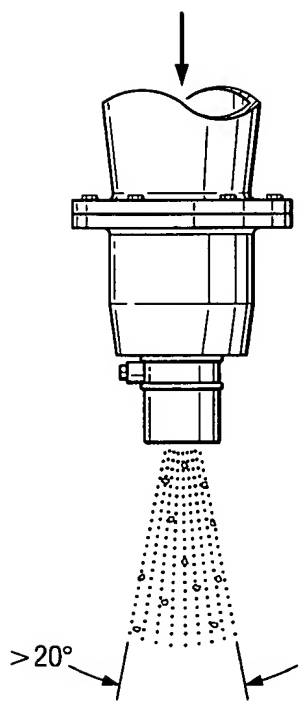


FIG. 1A
(PRIOR ART)

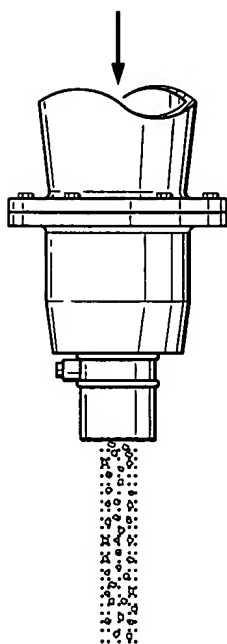


FIG. 1B
(PRIOR ART)

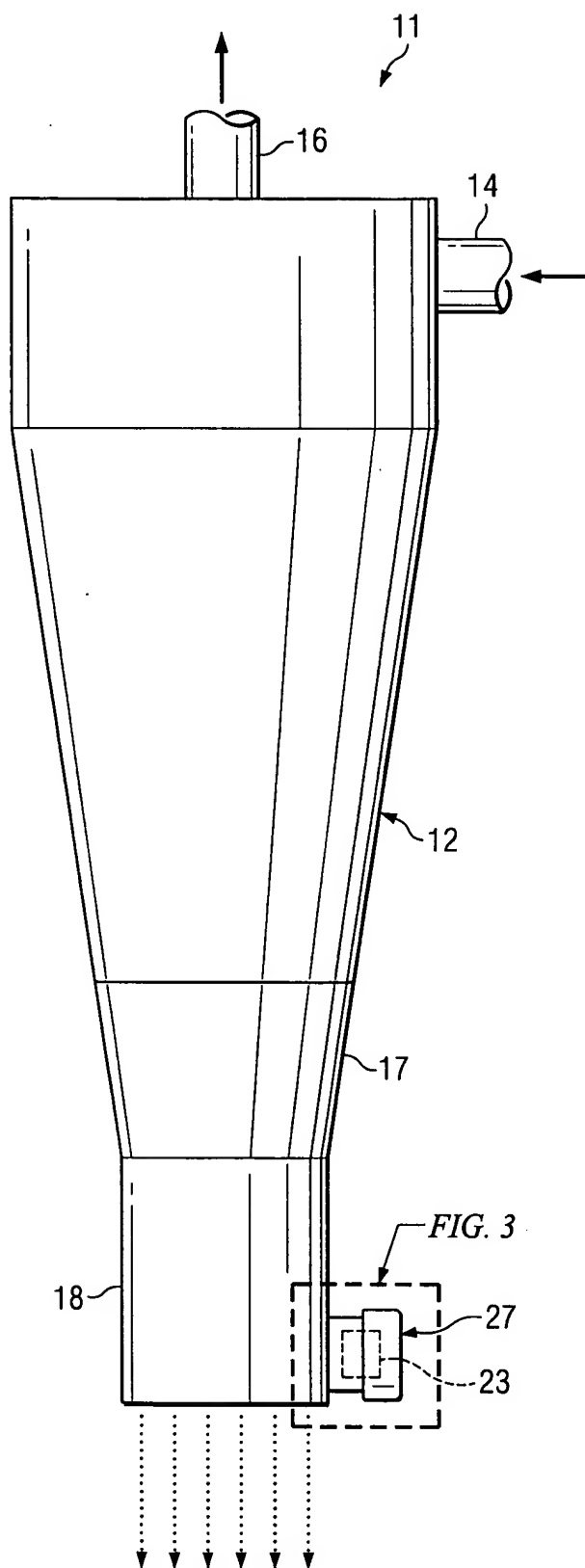


FIG. 2

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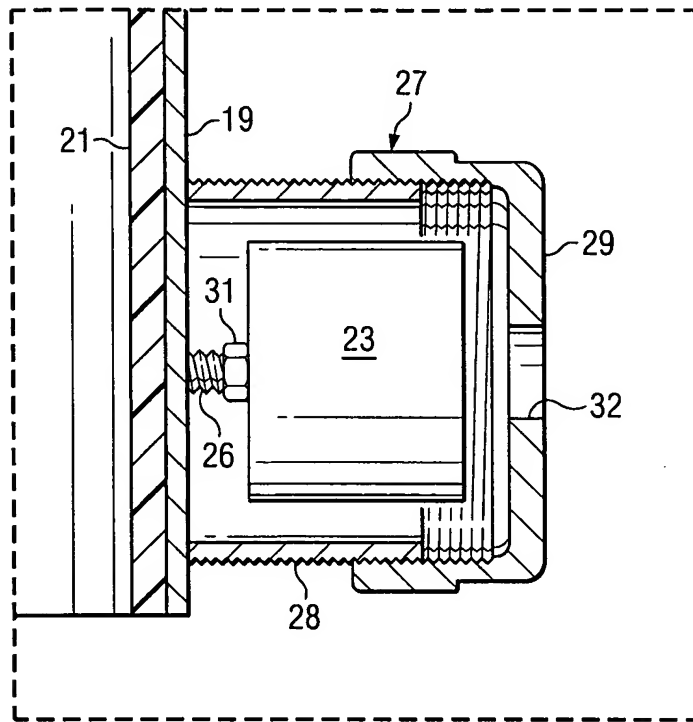


FIG. 3

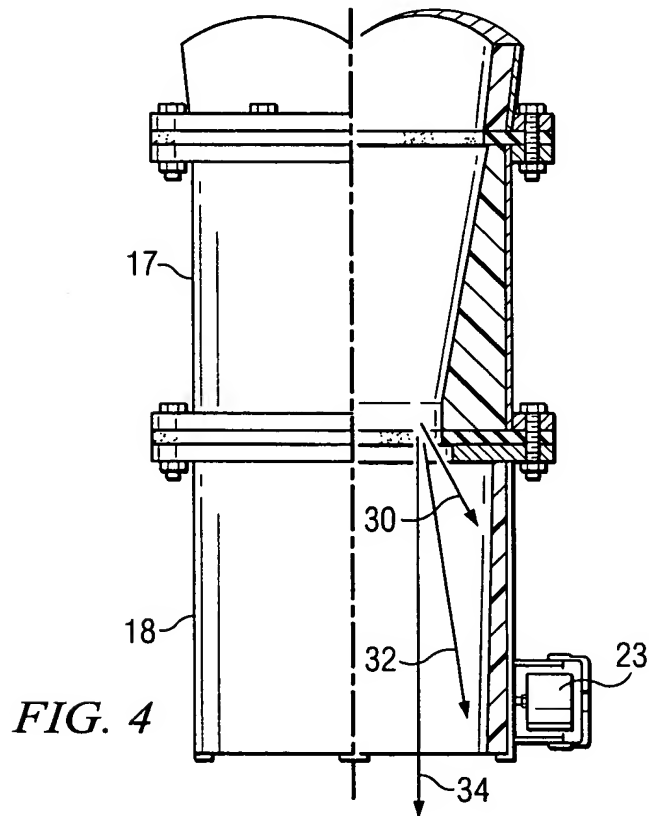


FIG. 4

Roping Detector

6 psi Current - good flow

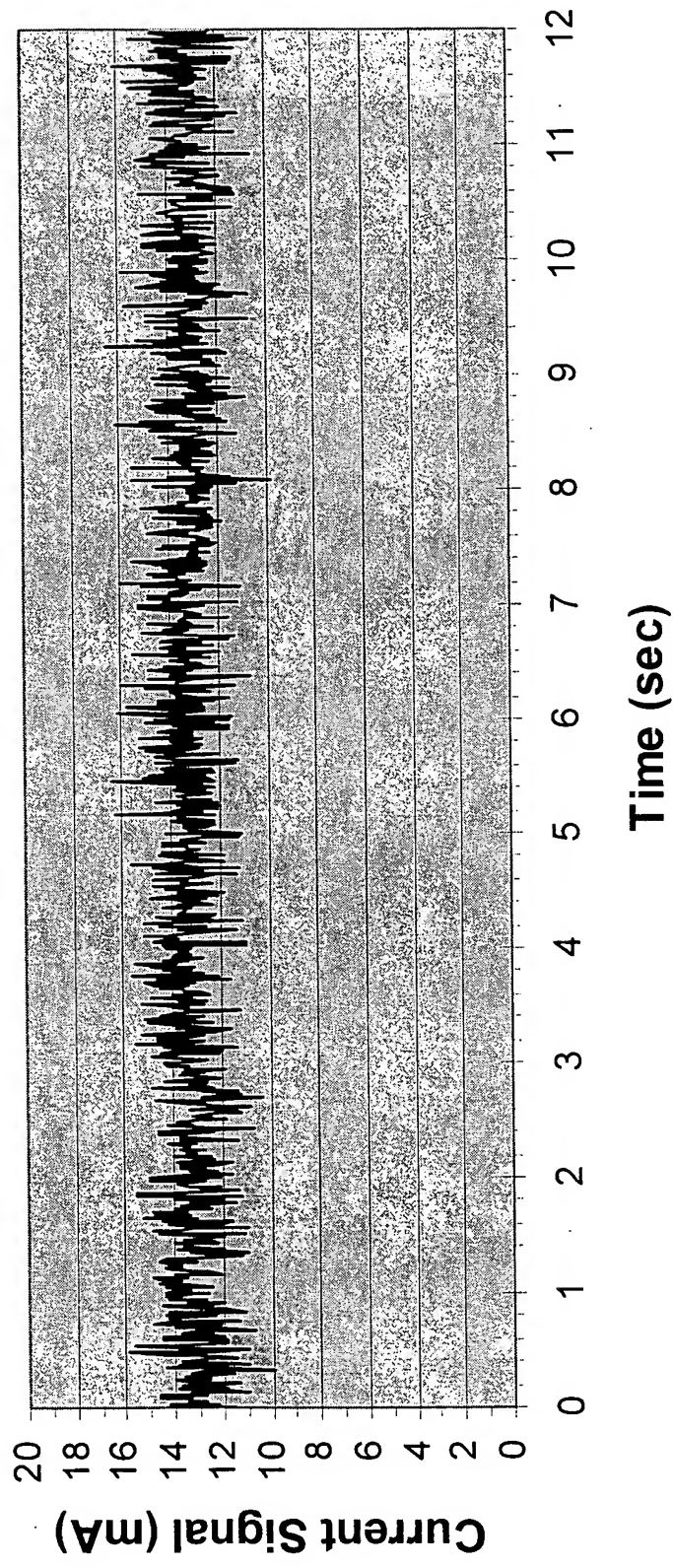


FIG. 5

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8 psi Current - good flow but missing skirt some

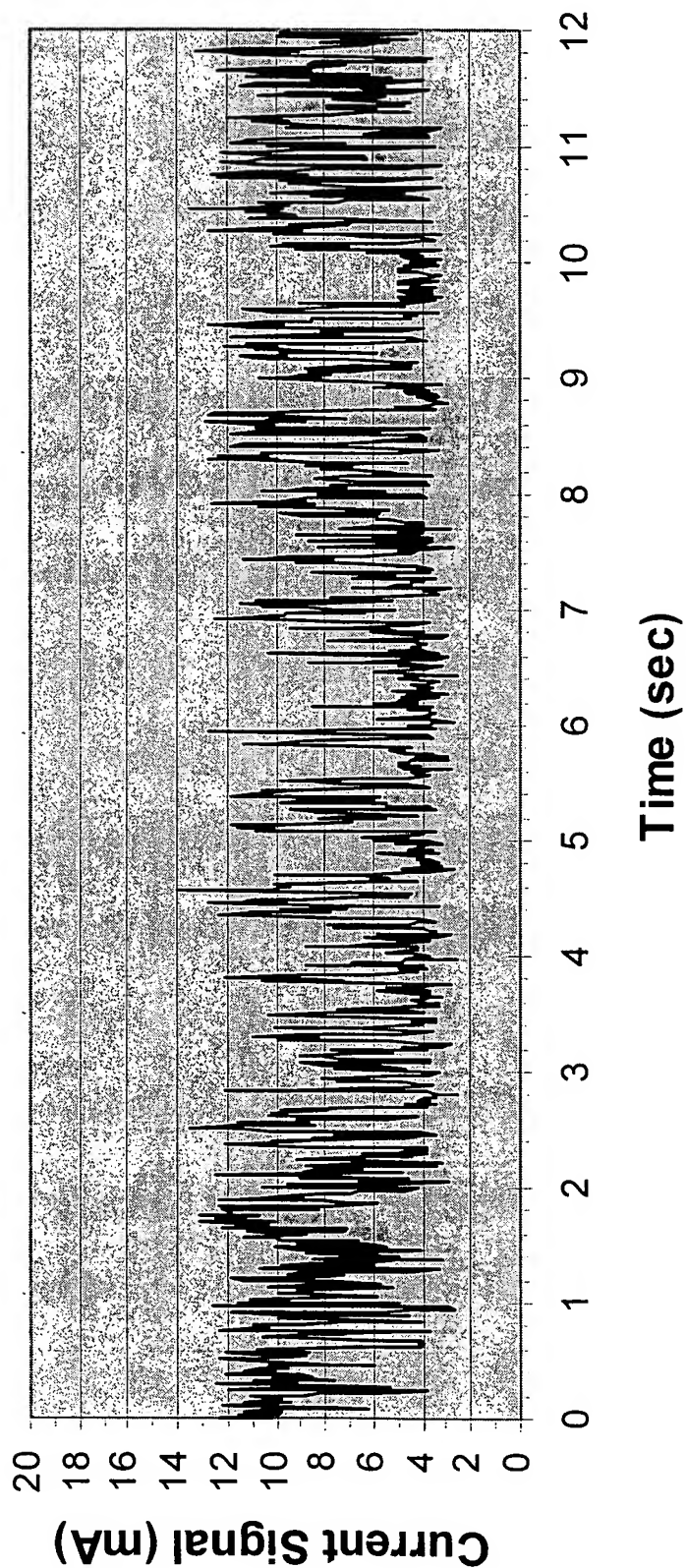
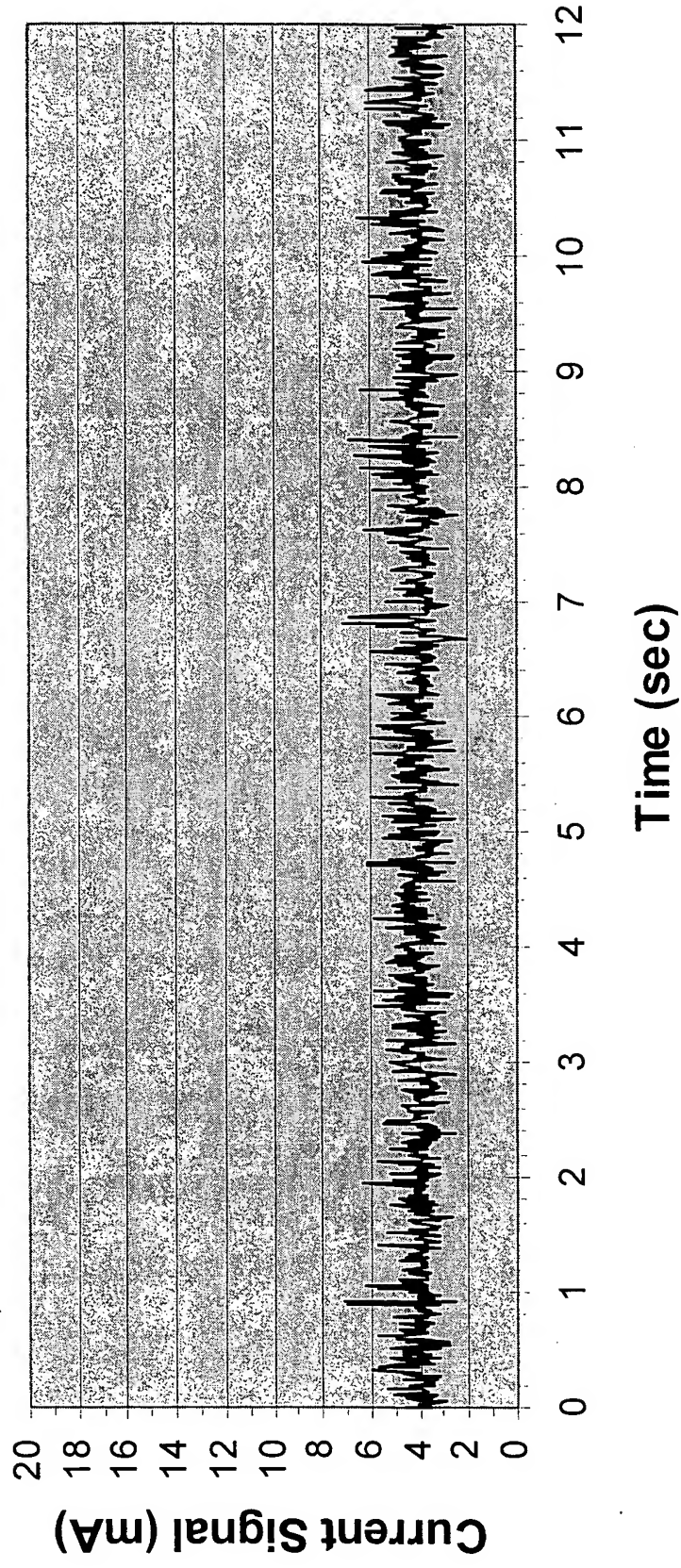


FIG. 6

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10 psi Current - obvious roping



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FIG. 7